

UNITED STATES PATENT AND TRADEMARK OFFICE (Case No. MBHB 01-100)

AUC		(Case No. MBHB 01-100)
In the	Application of:	PATENT (
	Rudger Rubbert, et al.	(Case No. MBHB 01-100) PATENT PATENT Group Art Unit: 2621 One of the content
Serial	No.: 09/835,007) Group Art blilt. 2021
Filed:	April 13, 2001))
For:	Methods For Registration Three-Dimensional Frant Create Three-Dimension Virtual Models Of Object	nes to) al)
Confi	mation No.: 3166)
		TRANSMITTAL LETTER
	issioner for Patents ngton DC 20231	
Sir:		·
1.	We are transmitting herewith 1. Information Disc. 2. Form PTO 1449 3. Cited Reference 4. Postcard	closure Information
2.		
3. duplica	Please charge any additional te copy of this sheet is enclos	fees or credit overpayment to Deposit Account No. 13-2490. A ed.
with th	s Transmittal Letter and the page. But the United States Postal Server.	JNG UNDER 37 CFR § 1.8: The undersigned hereby certifies aper, as described in paragraph 1 hereinabove, are being deposited ice with sufficient postage as first class mail in an envelope ats, Washington, D.C. 20231 on this _/2 day of July, 2001.

Thomas A. Fairhall

Reg. No. 34,591



UNITED STATES PATENT AND TRADEMARK OFFICE (Case No. MBHB 01-100)

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DATENT

In the	Application of:)
	Rudger Rubbert, et al.))
Serial	No.: 09/835,007) Group Art Unit: 2621
Filed:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
)
For:	Methods For Registration of)
	Three-Dimensional Frames to)
	Create Three-Dimensional)
	Virtual Models Of Objects)
	•)
Confi	rmation No.: 3166)

INFORMATION DISCLOSURE STATEMENT PURSUANT TO 37 C.F.R. §§ 1.97-1.98

Commissioner for Patents Washington, D.C. 20231

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.97 - 1.98, the Applicant wishes to make the following references of record in the above-identified application. A copy of each reference is enclosed. This Information Disclosure Statement is in compliance with the duty of candor as set forth in 37 C.F.R. § 1.56. These references are also listed on the enclosed PTO Form 1449. It is requested that the documents be given careful consideration and that they be cited of record in the prosecution history of the present application so that they will appear on the face of the patent issuing of the present application.



In the judgment of the undersigned, portions of the references may be material to the examination of the pending claims. However, the references have not been reviewed in sufficient detail to make any other representation and, in particular, no representation is intended as to the relative importance of any portion of the references. This Statement is not a representation that the cited references have effective dates early enough to be "prior art" within the meaning of 35 USC sections 102 or 103.

CITED REFERENCES

U.S. PATENTS:

- 1. U.S. Patent No. 4,185,918, DiMatteo et al., issued January 29, 1980
- 2. U.S. Patent No. 4,500,206, Cole et al., issued February 19, 1985
- 3. U.S. Patent No. 4,575,805, Moermann et al., issued March 11, 1986
- 4. U.S. Patent No. 4,611,288, Duret et al., issued September 9, 1986
- 5. U.S. Patent No. 4,663,720, Duret et al., issued May 5, 1987
- 6. U.S. Patent No. 4,825,263, Designations et al., issued April 25, 1989
- 7. U.S. Patent No. 4,837,732, Brandestini et al., issued June 6, 1989
- 8. U.S. Patent No. 4,867,570, Sorimachi et al., issued September 19, 1989
- 9. U.S. Patent No. 4,873,449, Paramythioti et al., issued October 10, 1989
- 10. U.S. Patent No. 5,011,405, Lemchen, issued April 30, 1991
- 11. U.S. Patent No. 5,027,281, Rekow et al, issued June 25, 1991
- 12. U.S. Patent No. 5,085,502, Womack et al., issued February 4, 1992
- 13. U.S. Patent No. 5,166,878, Poelstra, issued November 24, 1992
- 14. U.S. Patent No. 5,289,264, Steinbichler, issued February 22, 1994

McDONNELL BOEHNEN HULBERT & BERGHOFF 300 SOUTH WACKER DRIVE CHICAGO, ILLINOIS 60606 TELEPHONE (312) 913-0001 FACSIMILE: (312) 913-0002

- 15. U.S. Patent No. 5,309,243, Tsai, issued May 3, 1994
- 16. U.S. Patent No. 5,372,502, Massen et al, issued December 13, 1994
- 17. U.S. Patent No. 5,424,836, Weise et al., issued June 13, 1995
- 18. U.S. Patent No. 5,431,562, Andreiko et al, issued June 11,1995
- 19. U.S. Patent No. 5,545,039, Mushabac, issued August 13, 1996
- 20. U.S. Patent No. 5,608,211, Hirono et al., issued March 4, 1997
- 21. U.S. Patent No. 5,615,003, Hermary et al., issued March 25, 1997
- 22. U.S. Patent No. 5,878,159, Taleblou et al., issued March 2, 1999
- 23. U.S. Patent No. 5,970,499, Smith et al., issued October 19, 1999
- 24. U.S. Patent No. 5,975,893, Chishti et al, issued November 2, 1999
- 25. U.S. Patent No. 6,068,482, Snow, issued May 30, 2000
- 26. U.S. Patent No. 6,099,314, Kopelman et al., issued August 8, 2000
- 27. U.S. Patent No. 6,217,325, Chishti et al, issued April 17, 2001
- 28. U.S. Patent No. 6,227,850, Chishti et al, issued May 8, 2001
- 29. U.S. Patent No. 6,227,851, Chishti et al., issued May 8, 2001

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- 1. European Patent No. EP 0 250 993, Mörmann, published June 12, 1987*
- 2. European Patent No. EP 0 391 532 A2, NKK Corporation, published October 10, 1990
- 3. German Patent Application No. DE 42 18219, Weise, et al., December 9, 1993**
- 4. German Patent Application No. DE 44 45 552, Strehl et al., June 29, 1995***
- 5. German Patent Application No. DE 38 29 925, published March 15, 1990****
- 6. German Patent Application No. DE 44 36 500, published November 5, 1995*****

- 7. German Patent Application No. DE 196 38 727, published March 19, 1998, with English translation attached
- 8. Published PCT Application No. PCT/EP90/01715, publication No. WO 91/05520, published May 02, 1991, with English translation of same
- Published PCT Application No. PCT/DE97/01796, publication No. WO 98/10243,
 published August 19, 1997, with English translation of same
- Published PCT Application No. PCT/DE97/01797, publication No. WO 98/11403,
 published March 19, 1998, with English translation of same
- Published PCT Application No. PCT/DE97/01798, publication No. WO 98/11404,
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- 12. Published PCT Application No. PCT/DE99/01277, publication No. WO 99/60332, published April 29, 1999, with English translation of same
- 13. European Patent Application 0 294 577, LBP Partnership, published December 14, 1988
- 14. Canadian Patent Application CA 2,163,934, Hermary et al., May 30, 1996

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- 1. Syrinx Technologies, Inc. publication, "3D Scanner", circa 1998
- Journal of Prosthetic Dentistry article, Dianne Rekow article, "Computer-aided Design and Manufacturing in Dentistry: A Review of the State of the Art", pp. 512-516, October 1987
- 3. JADA, Vol. 118, Karl F. Leinfelder et al. article, "A New Method for Generating Ceramic Restorations: A CAD-CAM System", pp. 703-707, June 1989

4. Optical Engineering, Vol. 33 No. 6, Yee, et al., "Three-dimensional Imaging System", pp.

2070-2075, June 1994

STATEMENT OF RELEVANCE:

* The content of U.S. Patent 4,837,732 is believed to be essentially identical to the content

of European Patent 0 250 993.

** The content of U.S. Patent 5,424,836 is believed to be essentially identical to the content

of German Patent Application 42 18219.

*** The content of U.S. Patent 5,608,211 is believed to be essentially identical to the content

of German Patent DE 44 45 552.

**** The content of U.S. Patent 5,372,502 is believed to be essentially identical to the content

of German Patent Application DE 3829925.

***** Statement of Relevance for German Patent DE 44 36 500A is attached to patent.

Respectfully Submitted,

McDonnell Boehnen Hulbert & Berghoff

Date: July 12, 2001

By:

Thomas A. Fairhall

Reg. No. 34,591

CERTIFICATE OF MAILING

The undersigned hereby certifies that the foregoing Information Disclosure Statement

Pursuant to 37 C.F.R. §§ 1.97-1.98 is being deposited in the United States Postal Service, as

first class mail postage prepaid, in an envelope addressed to Assistant Commissioner for Patents,

Washington, D.C. 20231 on this 12 day of July, 2001.

Thomas A. Fairball

FORM PTO-1449 (Rev. 2-32)



U.S. Department of Commerce Patent and Trademark Office

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

Atty. Docket No.

ket No. | Serial No.

01-100

09/835,007

Applicant:

Rudger Rubbert, et al

Filing Date: 04/13/01

Group: 2621

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
Awc	4,185,918	01/29/80	DiMatteo et al.	356	375	Appropriate Appropriate Appropriate Appropriate
	4,500,206	02/19/85	Cole et al.	356	376	4 5
	4,575,805	03/11/86	Moermann et al	364	474	6 7
	4,611,288	09/09/86	Duret et al.	364	474	TOS TOS
	4,663,720	05/05/87	Duret et al.	364	474	THE ST
	4,825,263	04/25/89	Desjardins et al	356	376	300
	4,837,732	06/06/89	Brandestini et al.	364	413.28	
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	5,372,502	12/13/94	Massen, et al.	433	215	
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V	5,878,159	03/02/99	Taleblou et al.	382	128	

FORM PTO-1449 (Rev. 2-32)

U.S. Department of Commerce Patent and Trademark Office

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) Atty. Docket No.

Serial No.

01-100

09/835,007

Applicant:

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PARADEN		F	Rudger Rubber Filing Date: 04/13/01	achnology Cen	8 2001 Filing	
Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
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	5,975,893	11/02/99	Chisti et al	433	06	
	6,068,482	05/30/00	Snow	433	223	
	6,099,314	08/08/00	Kopelman et al.	433	213	
	6,217,325	04/17/01	Chishti et al.	433	24	
	6,227,850	05/08/01	Chishti et al.	433	24	
√	6,227,851	05/08/01	Chishti et al.	433	24	

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U.S. Department of Commerce Patent and Trademark Office

Atty. Docket No.

Serial No.

01-100

09/835,007

(Use several sheets if necessary)

Applicant:

STATEMENT BY APPLICANT

Rudger Rubbert, et al

Filing Date: 04/13/01

Group: 2621

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	Document Number					er		Date Co	Country C	Class	Subclass	Pagslation	
												Yes	No
Aux	EP	02	5	0	9	9	3	06/12/87	Europe		~		X* .
1	EP	02	9	4	5	7	7	04/26/88	Europe		_	x	
	EP	03	9	1	5	3	2	03/05/90	Europe	-		х	
	DE	42	1	8	2	1	9	12/09/93	Germany	_			X*
	DE	44	4	5	5	5	2	06/29/95	Germany		_		X*
	DE	44	3	6	5	0	0	11/05/95	Germany	_	_		X*
	DE	38	2	9	9	2	5	03/15/90	Germany	_	_		X*
	DE	19	6	38	7	2	7	03/19/98	Germany		-	Х	
	wo	98	1	1	4	0	3	03/19/98	РСТ		_	X	
	 wo	91	0	5	5	2	0	05/02/91	РСТ		<u></u>	Х	
	wo	98	1	1	4	0	4	03/19/98	PCT			X	
	wo	99	6	0	3	3	2	11/25/99	РСТ			Х	
	wo	98	1	0	2	4	3	03/12/98	РСТ		_	Х	
	CA	2	1	63	9	3	4	05/30/96	Canada			Х	

^{*}Statement of Relevance included

	(2 5)			Sheet 4 of 4
FORM PTO-1449 (Rev. 2-32)	TRADEMARKS	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No.	Serial No.
	INFORMATION DISTATEMENT BY A		01-100	09/835,007
	(Use several sheet	ts if necessary)		
			Applicant: Rudger Rubbert, et a	al
			Filing Date: 04/13/01	Group: 2621

		Filing Date: 04/13/01	Group: 2621				
	OTHER DOCUMENTS (Including Author, Title, Date, Per	rtinent Pages, Etc).	chnology Center 2600				
AWC	Syrinx Technologies, Inc. publication, "3D Scanner", circa 1998						
	Journal of Prosthetic Dentistry article, Dianne Rekow, M.S.M.E. Manufacturing in Dentistry: A Review of the State of the Art",	., D.D.S., "Computer	r-aided Design and				
	Optical Engineering, Vo. 33 No. 6, Yee et al., "Three-dimension 1994	al Imaging System",	pp. 2070-2075, June				
V .	JADA article, Vol. 118, Karl F. Leinfelder et al., "A New Method CAD-CAM System", pp. 703 – 707, June 1989	d for Generating Cera	amic Restorations: A				
							

EXAMINER	\sim	DATE CONSIDERED	[/29/	04
			,	

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

MCDONNELL BOEHNEN HULBERT & BERGHOFF 300 SOUTH WACKER DRIVE CHICAGO, ILLINOIS 60606 TEL: (312) 913-0001 FAX: (312) 913-0002